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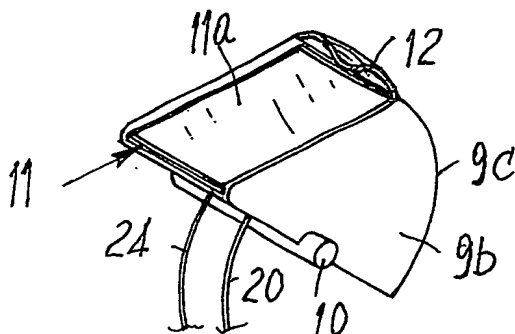
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- Declarations under Rule 4.17:**
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
  - as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
  - of inventorship (Rule 4.17(iv)) for US only
- Published:**
- without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTEGRATED SYSTEM FOR DETECTING AND MATCHING FINGERPRINTS



(57) Abstract: A system for obtaining a quality image by the use of at least one biometric capacitive fingerprint sensor having a plurality of capacitive sensor cells arranged underneath a surface of dielectric material (11 a) and each including at least one capacitor plate, and a plurality of registers, the system comprises the step of modulating any electromagnetic field generated at each capacitor plate in accordance with worst cleaning conditions of said surface (11a) of dielectric material, thereby obtaining a quality image with a correct contrast between ridge and valley of a detected fingerprint.

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB04/00279

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06K 9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06K 9/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

F41A 17/09

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT, EPO-Internal, WPI, PAJ, image, quality, biometric, fingerprint?, sensor?, dielectric, contrast, detect+

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1164075A (HARRIS CORP) 05. NOV. 1997	1,10
A	US6098330A (SCHMIDT, JOHN C.) 08. Aug. 2000	1,10

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

**PCT/IB04/00279**

Patent document cited in search report	Publicatin date	Patent family member(s)	Publicatin date
CN1164075A	05.Nov.1997.	EP0791899 A2	27.Aug.1997
		JP9251530 A	22.Sep.1997
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